

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A heat ~~exchanger~~ exchanger, ~~in particular~~ for motor vehicles,  
comprising: having  
    a housing, and  
    at least one tube arranged in the housing,  
    wherein structures are provided in a ~~[[the]]~~ region between the tubes and the housing  
and and/or between ~~[[the]]~~ individual tubes,  
    wherein the structures are formed from sheet-metal structures arranged between the  
tubes and the housing and between the individual tubes.
2. (Cancelled)
3. (Previously Presented) The heat exchanger as claimed in claim 2, wherein the sheet-metal structures are finned metal plates, studded metal plates or separate tubes.
4. (Withdrawn) The heat exchanger as claimed in claim 1, wherein the structures are formed directly on the housing and/or on the tubes.
5. (Withdrawn) The heat exchanger as claimed in claim 4, wherein the structures are produced by means of stamping.
6. (Currently Amended) The heat exchanger as claimed in claim 1, wherein the structures are fixedly joined to the housing and/or the tubes ~~tubes, in particular by soldering.~~
7. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the tubes are at least in part formed by flat tubes.

8. (Withdrawn) The heat exchanger as claimed in claim 1, wherein the tubes have supporting studs on the tube outer side.
9. (Currently Amended) The heat exchanger as claimed in claim 1, wherein the tubes have a tube surface on an ~~[[the]]~~ inner and/or outer side which is structured so as to generate turbulence.
10. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the structures at least in part have an inhomogeneous structure.
11. (Withdrawn) The heat exchanger as claimed in claim 1, wherein the structures are at least partially toothed.
12. (Previously Presented) The heat exchanger as claimed in claim 1, wherein the housing is formed in two or more parts.
13. (Currently Amended) The heat exchanger as claimed in claim 1, wherein heat exchanger is configured such that a medium which is to be cooled flows within the tubes, and a coolant flows in a ~~[[the]]~~ space between the housing and the tubes and structures.
14. (Currently Amended) The heat exchanger as claimed in claim 1, wherein ~~wherein~~ the structures are arranged on a ~~[[the]]~~ coolant side in the housing of the heat exchanger.
15. (Currently Amended) The heat exchanger as claimed in claim 1, wherein the structures are arranged in an ~~[[the]]~~ interior of at least one tube.
16. (Currently Amended) The heat exchanger as claimed in claim 1, wherein the structures are formed as at least one fin which is ~~in particular~~ straight or of undulating depth and/or ~~in particular~~ has gills.

17. (Withdrawn) The use of the heat exchanger as claimed in claim 1, wherein as an exhaust-gas heat exchanger or a charge-air cooler of a motor vehicle.
18. (New) The heat exchanger as claimed in claim 6, wherein the structures are fixedly joined to the housing and/or the tubes by soldering.
19. (New) The heat exchanger as claimed in claim 1, wherein the structures at least in part have an inhomogeneous structure such that the structures vary in at least one of shape, orientation, or distribution of the structures across the at least one tube in a direction transverse to a flow direction along a length of the heat exchanger.
20. (New) The heat exchanger as claimed in claim 19, wherein the inhomogeneous structure is provided at least at one of an inlet region of the at least one tube and an outlet region of the at least one tube.